

Title (en)

ROLLING STAND FOR PRODUCING ROLLED STRIP OR SHEET

Title (de)

WALZGERÜST ZUR HERSTELLUNG VON WALZBAND ODER BLECH

Title (fr)

CAGE DE LAMINOIR POUR LA FABRICATION DE BANDE LAMINÉE OU DE TÔLE

Publication

EP 2026916 B1 20120801 (DE)

Application

EP 07725995 A 20070613

Priority

- EP 2007005218 W 20070613
- AT 10212006 A 20060614

Abstract (en)

[origin: US8881569B2] A rolling mill stand for the production of rolled strip or sheet metal includes working rolls which are supported on respective supporting rolls or on intermediate rolls which are supported on supporting rolls. At least one of the rolls having a barrel contour which runs over the entire effective barrel length and can be described by a non-linear function. The barrel contour of this at least one roll having chamfers in at least one of the marginal regions of its longitudinal extent and the chamfers forming a corrected barrel contour in these marginal regions, so that inhomogeneities in the load distribution along the contact line of two adjacent rolls, and in particular in the region of the edges of the strip, are minimized. The corrected barrel contour is obtained by subtracting any non-linear mathematical chamfer function from the contour function described by the non-linear function, so that the pitch of the barrel contour and the pitch of the corrected barrel contour at a transition point from the barrel contour to the corrected barrel contour are identical.

IPC 8 full level

B21B 13/14 (2006.01)

CPC (source: EP US)

B21B 13/142 (2013.01 - EP US); **B21B 27/021** (2013.01 - EP US); **B21B 2013/025** (2013.01 - EP US); **B21B 2013/028** (2013.01 - EP US); **B21B 2027/022** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2007144161 A1 20071221; AT E488309 T1 20101215; BR PI0713145 A2 20120320; BR PI0713147 A2 20120320; CN 101466483 A 20090624; CN 101466483 B 20110615; CN 101511498 A 20090819; CN 101511498 B 20110615; DE 502007005682 D1 20101230; EP 2026915 A1 20090225; EP 2026915 B1 20101117; EP 2026915 B2 20170927; EP 2026916 A1 20090225; EP 2026916 B1 20120801; ES 2355948 T3 20110401; ES 2355948 T5 20180214; ES 2392357 T3 20121210; PL 2026915 T3 20110429; PL 2026915 T5 20180831; PL 2026916 T3 20121231; RU 2009100918 A 20100720; RU 2009100920 A 20100720; RU 2428268 C2 20110910; RU 2442669 C2 20120220; SI 2026915 T1 20110331; SI 2026915 T2 20180131; SI 2026916 T1 20121130; UA 92946 C2 20101227; UA 93090 C2 20110110; US 2009314047 A1 20091224; US 2010031724 A1 20100211; US 8413476 B2 20130409; US 8881569 B2 20141111; WO 2007144162 A1 20071221

DOCDB simple family (application)

EP 2007005217 W 20070613; AT 07725994 T 20070613; BR PI0713145 A 20070613; BR PI0713147 A 20070613; CN 200780021828 A 20070613; CN 200780022174 A 20070613; DE 502007005682 T 20070613; EP 07725994 A 20070613; EP 07725995 A 20070613; EP 2007005218 W 20070613; ES 07725994 T 20070613; ES 07725995 T 20070613; PL 07725994 T 20070613; PL 07725995 T 20070613; RU 2009100918 A 20070613; RU 2009100920 A 20070613; SI 200730509 T 20070613; SI 200731046 T 20070613; UA A200815031 A 20070613; UA A200900146 A 20070613; US 30493707 A 20070613; US 30495207 A 20070613